



SUSANA MARTINEZ
Governor
JOHN A. SANCHEZ
Lt. Governor

NEW MEXICO ENVIRONMENT DEPARTMENT

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BUTCH TONGATE
Cabinet Secretary

J. C. BORREGO
Deputy Secretary

Certified Mail – Return Receipt Requested

October 19, 2017

The Honorable Hilda Kellar, Mayor Village of Reserve
P.O. Box 587
Reserve, New Mexico 87830

**Re: Minor Municipal; SIC 4952; NPDES Compliance Evaluation; Village of Reserve Waste
Water Treatment Plant; NM0024163; September 21, 2017**

Dear Mayor Kellar:

Enclosed please find a copy of the report and check list for the referenced inspection that the New Mexico Environment Department (NMED) conducted at your facility on behalf of the U.S. Environmental Protection Agency (USEPA). This inspection report will be sent to the USEPA in Dallas for their review. These inspections are used by USEPA to determine compliance with the National Pollutant Discharge Elimination System (NPDES) permitting program in accordance with requirements of the federal Clean Water Act.

You are encouraged to review the inspection report, required to correct any problems noted during the inspection, and advised to modify your operational and/or administrative procedures, as appropriate. If you have comments on or concerns with the basis for the findings in the NMED inspection report, please contact us (see the address below) in writing within 30 days from the date of this letter. Further, you are encouraged to notify in writing both the USEPA and NMED regarding modifications and compliance schedules at the addresses below:

NPDES Enforcement Coordinator
Environmental Protection Agency, Region 6
NPDES Enforcement Branch (6EN-WM)
1445 Ross Avenue, Suite 1200
Dallas, Texas 75202-2733

Program Manager
New Mexico Environment Department
Surface Water Quality Bureau (N2050)
Point Source Regulation Section
P.O. Box 5469
Santa Fe, New Mexico 87502

Village of Reserve Waste Water Treatment Plant; NM0024163

October 19, 2017

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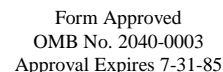
David Long (Long.David@epa.gov) is USEPA Region 6's Acting NPDES Enforcement Coordinator at the above address. If you have any questions about this inspection report, please contact Jennifer Foote at 505-827-0596 or at Jennifer.foote@state.nm.us.

Sincerely,

/s/ Sarah Holcomb

Sarah Holcomb
Program Manager
Point Source Regulation Section
Surface Water Quality Bureau

cc: Carol Peters-Wagnon, USEPA (6EN-WM) by e-mail
David Long, USEPA (6EN-WM) by e-mail
Nancy Williams, USEPA (6EN-WC) by e-mail
Amy Andrews, USEPA (6EN-WM) by e-mail
David Esparza, USEPA (6EN-WM) by e-mail
John Rhoderick, NMED District I by e-mail
Bret Sellars, Village of Reserve by e-mail



Section A: National Data System Coding

Section B: Facility Data

Section C: Areas Evaluated During Inspection
(S = Satisfactory, M = Marginal, U = Unsatisfactory, N = Not Evaluated)

Section D: Summary of Findings/Comments (Attach additional sheets if necessary)

Name(s) and Signature(s) of Inspector(s)	Agency/Office/Telephone/Fax	Date
Jennifer Foote /s/ <i>Jennifer Foote</i>	NMED/SWQB 505-827-0596	10/19/17
Signature of Management QA Reviewer	Agency/Office/Phone and Fax Numbers	Date
Sarah Holcomb, Program Manager /s/ <i>Sarah Holcomb</i>	NMED/SWQB 505-827-2798	10/19/17

Reserve	9/21/17	PERMIT NO. NM000024163
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SECTION A - PERMIT VERIFICATION		
PERMIT SATISFACTORILY ADDRESSES OBSERVATIONS <input checked="" type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/> NA (FURTHER EXPLANATION ATTACHED <u>No</u>) DETAILS: Permit expires Aug 31, 2018, reapplication is due 6 months prior.		
1. CORRECT NAME AND MAILING ADDRESS OF PERMITTEE	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA	
2. NOTIFICATION GIVEN TO EPA/STATE OF NEW DIFFERENT OR INCREASED DISCHARGES	<input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA	
3. NUMBER AND LOCATION OF DISCHARGE POINTS AS DESCRIBED IN PERMIT	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA	
4. ALL DISCHARGES ARE PERMITTED	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA	
SECTION B - RECORDKEEPING AND REPORTING EVALUATION		
RECORDS AND REPORTS MAINTAINED AS REQUIRED BY PERMIT. <input type="checkbox"/> S <input checked="" type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/> NA (FURTHER EXPLANATION ATTACHED <u>Yes</u>) DETAILS:		
1. ANALYTICAL RESULTS CONSISTENT WITH DATA REPORTED ON DMRs. Units for Cl do not match	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N <input type="checkbox"/> NA	
2. SAMPLING AND ANALYSES DATA ADEQUATE AND INCLUDE.	<input checked="" type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/> NA	
a) DATES, TIME(S) AND LOCATION(S) OF SAMPLING	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA	
b) NAME OF INDIVIDUAL PERFORMING SAMPLING	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA	
c) ANALYTICAL METHODS AND TECHNIQUES.	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA	
d) RESULTS OF ANALYSES AND CALIBRATIONS.	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA	
e) DATES AND TIMES OF ANALYSES.	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA	
f) NAME OF PERSON(S) PERFORMING ANALYSES.	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA	
3. LABORATORY EQUIPMENT CALIBRATION AND MAINTENANCE RECORDS ADEQUATE. Scales calibrated Feb 2017	<input checked="" type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/> NA	
4. PLANT RECORDS INCLUDE SCHEDULES, DATES OF EQUIPMENT MAINTENANCE AND REPAIR	<input checked="" type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/> NA	
5. EFFLUENT LOADINGS CALCULATED USING DAILY EFFLUENT FLOW AND DAILY ANALYTICAL DATA.	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA	
SECTION C - OPERATIONS AND MAINTENANCE		
TREATMENT FACILITY PROPERLY OPERATED AND MAINTAINED. <input checked="" type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/> NA (FURTHER EXPLANATION ATTACHED <u>Yes</u>) DETAILS:		
1. TREATMENT UNITS PROPERLY OPERATED.	<input checked="" type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/> NA	
2. TREATMENT UNITS PROPERLY MAINTAINED.	<input checked="" type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/> NA	
3. STANDBY POWER OR OTHER EQUIVALENT PROVIDED.	<input checked="" type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/> NA	
4. ADEQUATE ALARM SYSTEM FOR POWER OR EQUIPMENT FAILURES AVAILABLE. Manual system	<input checked="" type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/> NA	
5. ALL NEEDED TREATMENT UNITS IN SERVICE.	<input checked="" type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/> NA	
6. ADEQUATE NUMBER OF QUALIFIED OPERATORS PROVIDED. Backup operator will be testing for level 1 in Spring	<input type="checkbox"/> S <input checked="" type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/> NA	
7. SPARE PARTS AND SUPPLIES INVENTORY MAINTAINED.	<input type="checkbox"/> S <input checked="" type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/> NA	
8. OPERATION AND MAINTENANCE MANUAL AVAILABLE.	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA	
STANDARD OPERATING PROCEDURES AND SCHEDULES ESTABLISHED.	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA	
PROCEDURES FOR EMERGENCY TREATMENT CONTROL ESTABLISHED.	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA	

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SECTION C - OPERATIONS AND MAINTENANCE (CONT'D)	
9. HAVE BYPASSES/OVERFLOWS OCCURRED AT THE PLANT OR IN THE COLLECTION SYSTEM IN THE LAST YEAR? IF SO, HAS THE REGULATORY AGENCY BEEN NOTIFIED? HAS CORRECTIVE ACTION BEEN TAKEN TO PREVENT ADDITIONAL BYPASSES/OVERFLOWS?	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA <input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA
10. HAVE ANY HYDRAULIC OVERLOADS OCCURRED AT THE TREATMENT PLANT? IF SO, DID PERMIT VIOLATIONS OCCUR AS A RESULT?	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA
SECTION D - SELF-MONITORING	
PERMITTEE SELF-MONITORING MEETS PERMIT REQUIREMENTS. DETAILS:	<input checked="" type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/> NA (FURTHER EXPLANATION ATTACHED <u>no</u>).
1. SAMPLES TAKEN AT SITE(S) SPECIFIED IN PERMIT.	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA
2. LOCATIONS ADEQUATE FOR REPRESENTATIVE SAMPLES.	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA
3. FLOW PROPORTIONED SAMPLES OBTAINED WHEN REQUIRED BY PERMIT.	<input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA
4. SAMPLING AND ANALYSES COMPLETED ON PARAMETERS SPECIFIED IN PERMIT.	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA
5. SAMPLING AND ANALYSES PERFORMED AT FREQUENCY SPECIFIED IN PERMIT.	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA
6. SAMPLE COLLECTION PROCEDURES ADEQUATE	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA
a) SAMPLES REFRIGERATED DURING COMPOSITING.	<input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA
b) PROPER PRESERVATION TECHNIQUES USED.	<input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA
c) CONTAINERS AND SAMPLE HOLDING TIMES CONFORM TO 40 CFR 136.3.	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA
7. IF MONITORING AND ANALYSES ARE PERFORMED MORE OFTEN THAN REQUIRED BY PERMIT, ARE THE RESULTS REPORTED IN PERMITTEE'S SELF-MONITORING REPORT?	<input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA
SECTION E - FLOW MEASUREMENT	
PERMITTEE FLOW MEASUREMENT MEETS PERMIT REQUIREMENTS. DETAILS:	<input type="checkbox"/> S <input checked="" type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/> NA (FURTHER EXPLANATION ATTACHED <u>Yes</u> .)
1. PRIMARY FLOW MEASUREMENT DEVICE PROPERLY INSTALLED AND MAINTAINED. TYPE OF DEVICE <u>Mechanical</u>	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA
2. FLOW MEASURED AT EACH OUTFALL AS REQUIRED.	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA
3. SECONDARY INSTRUMENTS (TOTALIZERS, RECORDERS, ETC.) PROPERLY OPERATED AND MAINTAINED.	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA
4. CALIBRATION FREQUENCY ADEQUATE. (DATE OF LAST CALIBRATION <u>June 2015</u>) RECORDS MAINTAINED OF CALIBRATION PROCEDURES. CALIBRATION CHECKS DONE TO ASSURE CONTINUED COMPLIANCE.	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> Y <input checked="" type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> Y <input checked="" type="checkbox"/> N <input type="checkbox"/> NA
5. FLOW ENTERING DEVICE WELL DISTRIBUTED ACROSS THE CHANNEL AND FREE OF TURBULENCE.	<input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA
6. HEAD MEASURED AT PROPER LOCATION.	<input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA
7. FLOW MEASUREMENT EQUIPMENT ADEQUATE TO HANDLE EXPECTED RANGE OF FLOW RATES.	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA
SECTION F - LABORATORY	
PERMITTEE LABORATORY PROCEDURES MEET PERMIT REQUIREMENTS. DETAILS: TRC and pH performed at facility	<input checked="" type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/> NA (FURTHER EXPLANATION ATTACHED <u>No</u> .)
1. EPA APPROVED ANALYTICAL PROCEDURES USED (40 CFR 136.3 FOR LIQUIDS, 503.8(b) FOR SLUDGES)	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA

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SECTION F - LABORATORY (CONT'D)

2. IF ALTERNATIVE ANALYTICAL PROCEDURES ARE USED, PROPER APPROVAL HAS BEEN OBTAINED ☐ Y ☐ N ☒ NA
3. SATISFACTORY CALIBRATION AND MAINTENANCE OF INSTRUMENTS AND EQUIPMENT. ☒ S ☐ M ☐ U ☐ NA
4. QUALITY CONTROL PROCEDURES ADEQUATE. ☒ S ☐ M ☐ U ☐ NA
5. DUPLICATE SAMPLES ARE ANALYZED. ____ % OF THE TIME. ☒ Y ☐ N ☐ NA
6. SPIKED SAMPLES ARE ANALYZED. ____ % OF THE TIME. ☒ Y ☐ N ☐ NA
7. COMMERCIAL LABORATORY USED. ☒ Y ☐ N ☐ NA

Hall Environmental (TSS, BOD, ecoli)
4901 Hawkins NE / Albuquerque, NM 87109

SECTION G - EFFLUENT/RECEIVING WATERS OBSERVATIONS.☒ S ☐ M ☐ U ☐ NA (FURTHER EXPLANATION ATTACHED No).

OUTFALL NO.	OIL SHEEN	GREASE	TURBIDITY	VISIBLE FOAM	FLOAT SOL.	COLOR	OTHER
001	none	none	none	none	none	none	

RECEIVING WATER OBSERVATIONS

SECTION H - SLUDGE DISPOSAL

SLUDGE DISPOSAL MEETS PERMIT REQUIREMENTS.
DETAILS: No records available.

☐ S ☐ M ☒ U ☐ NA (FURTHER EXPLANATION ATTACHED Yes).

1. SLUDGE MANAGEMENT ADEQUATE TO MAINTAIN EFFLUENT QUALITY. ☒ S ☐ M ☐ U ☐ NA
2. SLUDGE RECORDS MAINTAINED AS REQUIRED BY 40 CFR 503. ☐ S ☐ M ☒ U ☐ NA
3. FOR LAND APPLIED SLUDGE, TYPE OF LAND APPLIED TO: Public Contact (e.g., FOREST, AGRICULTURAL, PUBLIC CONTACT SITE)

SECTION I - SAMPLING INSPECTION PROCEDURES (FURTHER EXPLANATION ATTACHED ____).

1. SAMPLES OBTAINED THIS INSPECTION. ☐ Y ☐ N ☒ NA
2. TYPE OF SAMPLE OBTAINED
GRAB _____ COMPOSITE SAMPLE _____ METHOD _____ FREQUENCY _____
3. SAMPLES PRESERVED. ☐ Y ☐ N ☒ NA
4. FLOW PROPORTIONED SAMPLES OBTAINED. ☐ Y ☐ N ☒ NA
5. SAMPLE OBTAINED FROM FACILITY'S SAMPLING DEVICE. ☐ Y ☐ N ☒ NA
6. SAMPLE REPRESENTATIVE OF VOLUME AND NATURE OF DISCHARGE. ☐ Y ☐ N ☒ NA
7. SAMPLE SPLIT WITH PERMITTEE. ☐ Y ☐ N ☒ NA
8. CHAIN-OF-CUSTODY PROCEDURES EMPLOYED. ☐ Y ☐ N ☒ NA
9. SAMPLES COLLECTED IN ACCORDANCE WITH PERMIT. ☐ Y ☐ N ☒ NA

Further Explanations
Village of Reserve Wastewater Treatment Plant
NPDES Permit No. NM0024163
Inspection Date: September 21, 2017

INTRODUCTION:

On September 21, 2017, Jennifer Foote of the New Mexico Environment Department (NMED), Surface Water Quality Bureau (SWQB) conducted a Compliance Evaluation Inspection at the Village of Reserve Wastewater Treatment Plant in Catron County, New Mexico. The WWTP has a design flow capacity of 0.075 million gallons per day (MGD) and is classified as a minor municipal discharger under the federal Clean Water Act, Section 402, of the National Pollutant Discharge Elimination System (NPDES) permit program. It is assigned NPDES permit number NM0024163 which regulates discharge from outfall 001 to Christensen Arroyo and thence to the San Francisco River in Water Quality Segment 20.6.4.601 of the New Mexico Administrative Code (NMAC). This segment includes the designated uses of irrigation, marginal warmwater and marginal coldwater aquatic life, livestock watering, wildlife habitat and primary contact.

The NMED performs a certain number of inspections for the U.S. Environmental Protection Agency (USEPA), Region VI, under the NPDES permit program, in accordance with the federal Clean Water Act. USEPA uses these inspections to determine compliance with the NPDES permit program. This inspection report is based on information provided by the permittee's representatives, observations made by NMED staff, and records and reports kept by the permittee and/or NMED.

INSPECTION DETAILS:

Upon arrival at the facility, the inspector made introductions, stated the purpose of the inspection and presented her credentials to Mr. Bret Sellars, Wastewater Treatment Plant Supervisor for the Village. They toured the facility and reviewed paperwork in the office. At the end of the tour, the inspector conducted an exit interview on site to discuss preliminary findings of the inspection.

TREATMENT SCHEME:

The Village of Reserve's wastewater treatment plant (WWTP) was originally constructed in the 1970's. The current anoxic basin, two cell aeration basin and secondary clarifiers were constructed in 2003. The Village has a population of approximately 400 residents. In addition, the Village has adopted a grease trap ordinance for local restaurants.

The WWTP's collection system has 2 lift stations. A 140-gallon diesel generator at the plant can be used for backup power. The headworks of the plant consist of a manually cleaned bar screen and 3" Parshall flume for measuring influent flow. The lift station at the headworks has an alarm (light) for power outages. After the headworks, a pump lifts wastewater to an anoxic tank. Flow can then be diverted to one of two aeration basins consisting of two concrete tanks with diffused aeration from one of three blowers on-site. One of the two aeration basins is used as an additional anoxic basin. After the aeration basin, wastewater flows by gravity to a splitter box where it can be directed to one of two secondary clarifiers. Return activated sludge (RAS) can be sent back to the aeration basin and flow from the secondary clarifiers can be recycled back to the anoxic basin. Wastewater leaves the clarifier by flowing over weirs into an inner trough leading to a wet well where chlorine gas is injected. One hundred fifty (150) pound gas chlorine cylinders and automatic switchover unit is stored in a chlorine room at the plant office. After the wet well, wastewater enters a dual chamber serpentine chlorine contact chamber. Each chlorine contact chamber has a sodium sulfite tablet de-chlorination unit.

After the de-chlorination unit, effluent enters an open basin and channel before flow measurement. The weir has been replaced with a mechanical meter.

Outfall 001 is located outside the plant fence. Effluent from the outfall enters Christensen Arroyo, then a pipe that passes under an irrigation ditch and then the San Francisco River.

SLUDGE:

Waste activated sludge (WAS) from the secondary clarifier is dewatered in four sludge sand filter drying beds in a low area of the facility. Under drains collect water from the drying beds. Filtrate is pumped back to the headworks to be retreated. Dry sludge is moved from the beds to the plant's concrete dry sludge storage pad. Once the sludge is adequately dried and tested, it is given away for land application uses, mostly for pasture.

FINDINGS:

Section B – Recordkeeping and Reporting Evaluation – Overall Rating of “Marginal”.

Permit Requirements:

Part III.D.9 (Other Information):

Where the permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application or in any report to the Director, it shall promptly submit such facts or information.

40CFR122.41 (i) requires: Monitoring results must be reported on a Discharge Monitoring Report (DMR) or forms provided or specified by the Director for reporting results of monitoring of sludge use or disposal practices. As of December 21, 2016 all reports and forms submitted in compliance with this section must be submitted electronically by the permittee to the Director or initial recipient, as defined in 40 CFR 127.2(b), in compliance with this section and 40 CFR part 3 (including, in all cases, subpart D to part 3), § 122.22, and 40 CFR part 127 The National Pollutant Discharge Elimination System (NPDES) Electronic Reporting Rule: requires the electronic reporting and sharing of Clean Water Act National Pollutant Discharge Elimination System (NPDES) program information.

Findings for Recordkeeping and Reporting:

- Bench sheets and instrument measures in mg/L for TRC, DMR form is in ug/L and values were not converted. Mr. Sellars sent an email on 9/25/17 stating that he had resubmitted the DMRs.
- The facility currently does not have computer equipment that will allow them to electronically submit DMRs. They stated they had submitted a request for a temporary waiver to EPA, but documentation was not available.

Section C - Operations and Maintenance – Overall Rating of “Satisfactory”

Permit Requirements:

b. The permittee shall provide an adequate operating staff which is duly qualified to carry out operation, maintenance and testing functions required to insure compliance with the conditions of this permit.

Observations for Operations and Maintenance:

The facility had operation and maintenance manuals and standard operating procedures available. They have instituted a regular program of root removal to prevent overflows in the collection system. The previously out of service clarifier had been repaired and the second clarifier was scheduled to be maintained the week after the inspection. Grants have been obtained for an automated fine screen and influent meter at the headworks, as well as installation of a new UV contact chamber to replace the chlorine gas.

Findings for Operations and Maintenance:

- Facility currently has only one certified operator, a backup operator will be testing for level one operator certification in spring. It is important that the city continue to work towards having adequate backup staff.

Section E – Flow Measurement: “Marginal”

Permit Requirements:

Part III.C.5 (Monitoring Procedures) of the permit stipulates:

b. The permittee shall calibrate and perform maintenance procedures on all monitoring and analytical instruments at intervals frequent enough to insure accuracy of measurements and shall maintain appropriate records of such activities.

Part III.C.6 (Flow Measurements) of the permit states:

Appropriate flow measurement devices and methods consistent with accepted scientific practices shall be selected and used to ensure the accuracy and reliability of measurements of the volume of monitored discharges. The devices shall be installed, calibrated, and maintained to insure that the accuracy of the measurements is consistent with the accepted capability of that type of device. Devices selected shall be capable of measuring flows with a maximum deviation of less than 10% from true discharge rates throughout the range of expected discharge volumes.

Part III.C.6 (Flow Measurements) of the permit states:

Appropriate flow measurement devices and methods consistent with accepted scientific practices shall be selected and used to ensure the accuracy and reliability of measurements of the volume of monitored discharges. The devices shall be installed, calibrated, and maintained to insure that the accuracy of the

measurements is consistent with the accepted capability of that type of device. Devices selected shall be capable of measuring flows with a maximum deviation of less than 10% from true discharge rates throughout the range of expected discharge volumes.

Findings for Flow Measurement:

- The influent flow meter was last calibrated June 2015. USEPA's NPDES Inspection Manual, Chapter 6 states, "The facility must ensure that their flow measurement systems are calibrated by a qualified source at least once a year to ensure their accuracy." *Mr. Sellars sent an email on 9/25/17 stating that he had scheduled for the influent flow meter to be calibrated in the next month.*
- The effluent flow meter was replaced with a mechanical meter after the ultrasonic sensor was found to be malfunctioning. No procedure for calibration of the mechanical meter was available, the meter screen is cleaned once a week. Flow measurement accuracy is important because this information is used to calculate mass loading calculations. Simple checks, like using, there is a Parshall flume in the canal where the treated effluent is discharged. The flume (if properly installed and calibrated) could also be used to periodically check the validity and accuracy of the Mechanical flow meter. USEPA's NPDES Inspection Manual, Chapter 6 states, "The facility must ensure that their flow measurement systems are calibrated by a qualified source at least once a year [emphasis added] to ensure their accuracy."

Section H – Sludge Disposal – Overall Rating “Unsatisfactory”

Permit requirements:

Part IV (Minor – Sewage Sludge Requirements *Element 1, Section 1. C. 5.*

Recordkeeping Requirements - The sludge documents will be retained on site at the same location as other NPDES records.

Findings for Sludge Disposal:

- Sludge is given away for land application mostly for pasture. Mr. Sellars stated that they had the sludge tested by Hall Environmental for the required constituents. The required records were not available at the time of the inspection.

**NMED/SWQB
Official Photograph Log
Photo # 1**

Photographer: Jennifer Foote

Date: 9/21/17

Time: 8:40am

City/County: Reserve, Catron Co.

State: New Mexico

Location: Reserve WWTP

Subject: New mechanical effluent flow meter



**NMED/SWQB
Official Photograph Log
Photo # 2**

Photographer: Jennifer Foote

Date: 9/21/17

Time: 8:32am

City/County: Reserve, Catron Co.

State: New Mexico

Location: Reserve WWTP

Subject: Clarifier



NMED/SWQB
Official Photograph Log
Photo # 1

Photographer: Jennifer Foote

Date: 9/21/17

Time: 8:47am

City/County: Reserve, Catron Co.

State: New Mexico

Location: Reserve WWTP

Subject: outfall at Christensen Arroyo

